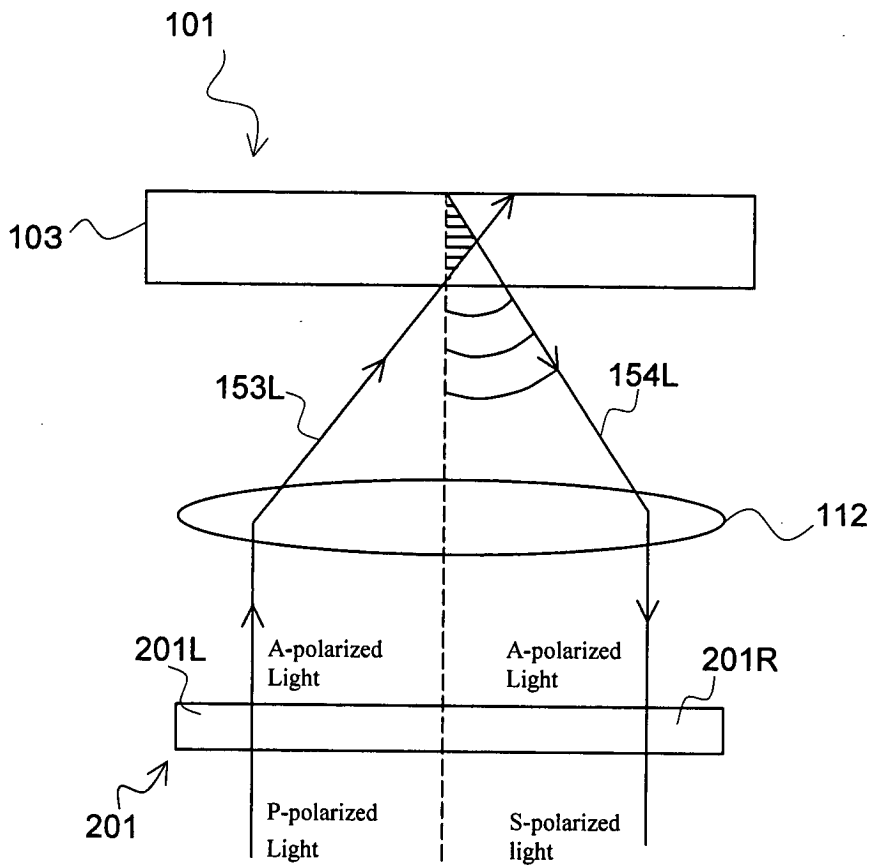

101
103
153L
154L
112
201L
A-polarized
Light
A-polarized
Light
201R
201
P-polarized
Light
S-polarized
light

FIGURE 1

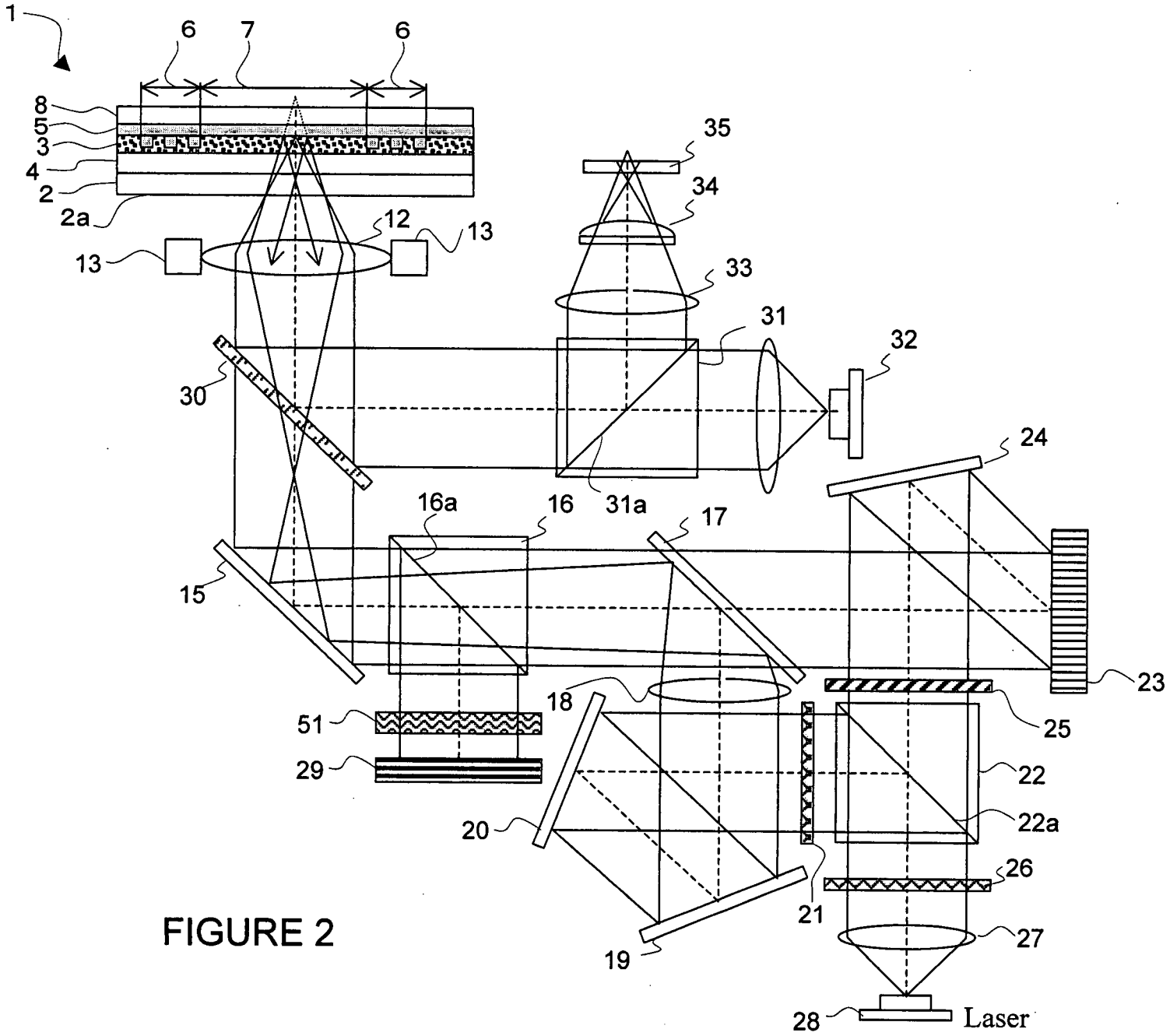

1
6
7
6
8
5
3
4
2
2a
12
13
13
35
34
33
31
32
30
31a
16a
16
17
24
15
23
18
25
51
29
22
22a
20
26
21
27
19
28
Laser

FIGURE 2

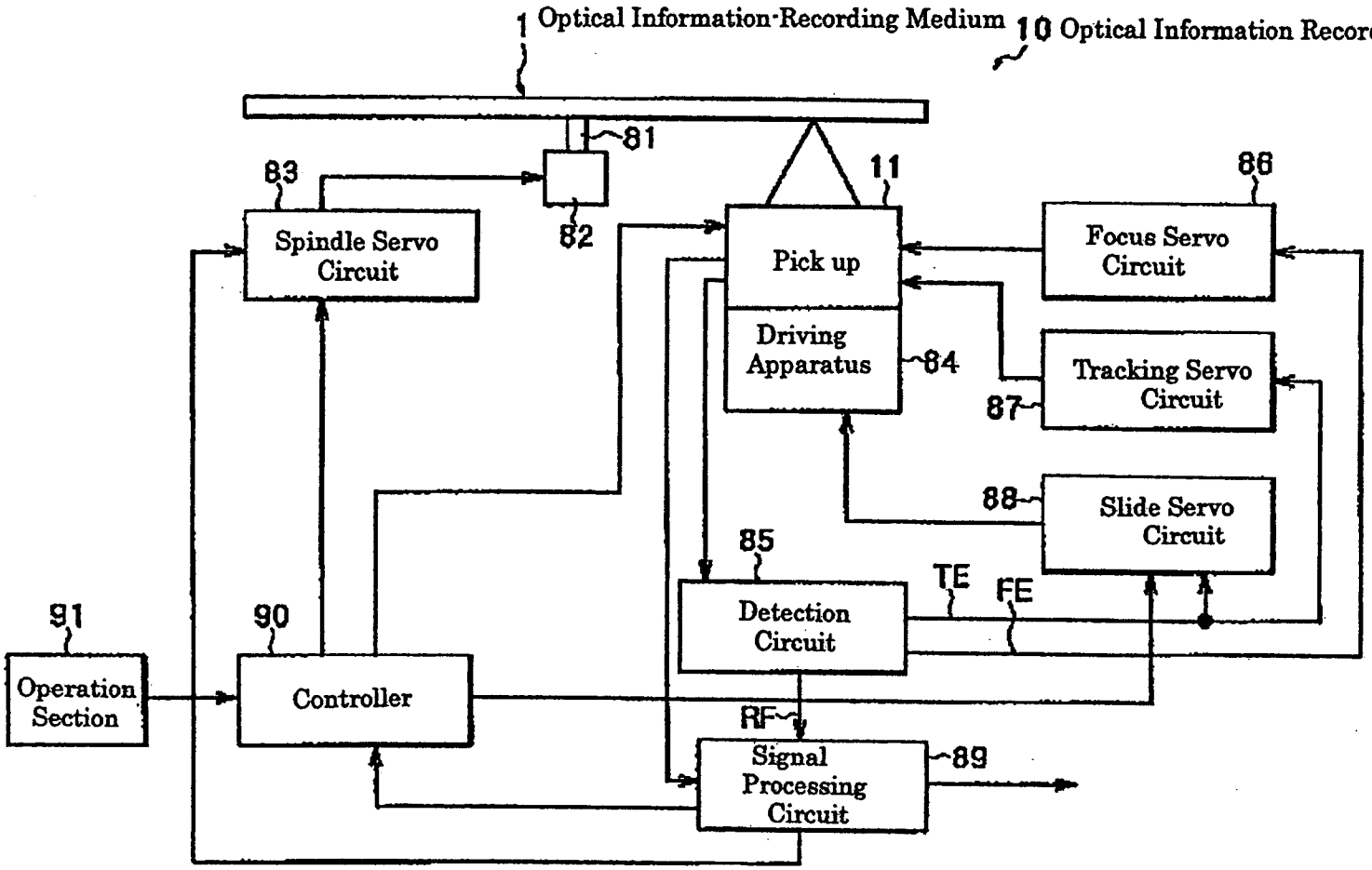

1 Optical Information-Recording Medium
10 Optical Information Recording/Reproducing Apparatus
81
82
83
Spindle Servo Circuit
11
Pick up
Driving Apparatus
84
86
Focus Servo Circuit
Tracking Servo Circuit
87
88
Slide Servo Circuit
85
Detection Circuit
TE
FE
RF
89
Signal Processing Circuit
90
Controller
91
Operation Section

FIGURE 3

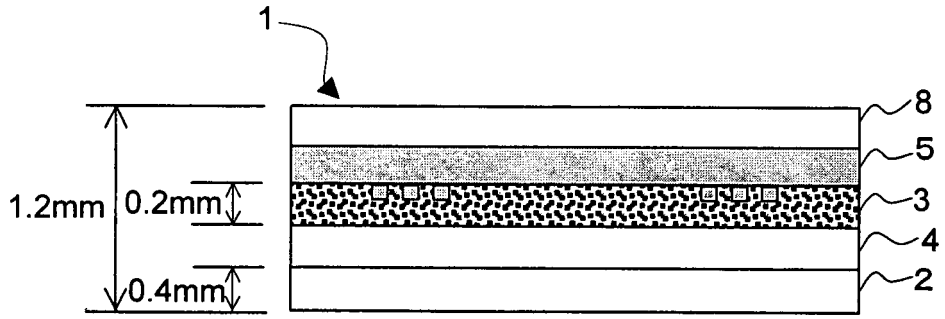


FIGURE 4

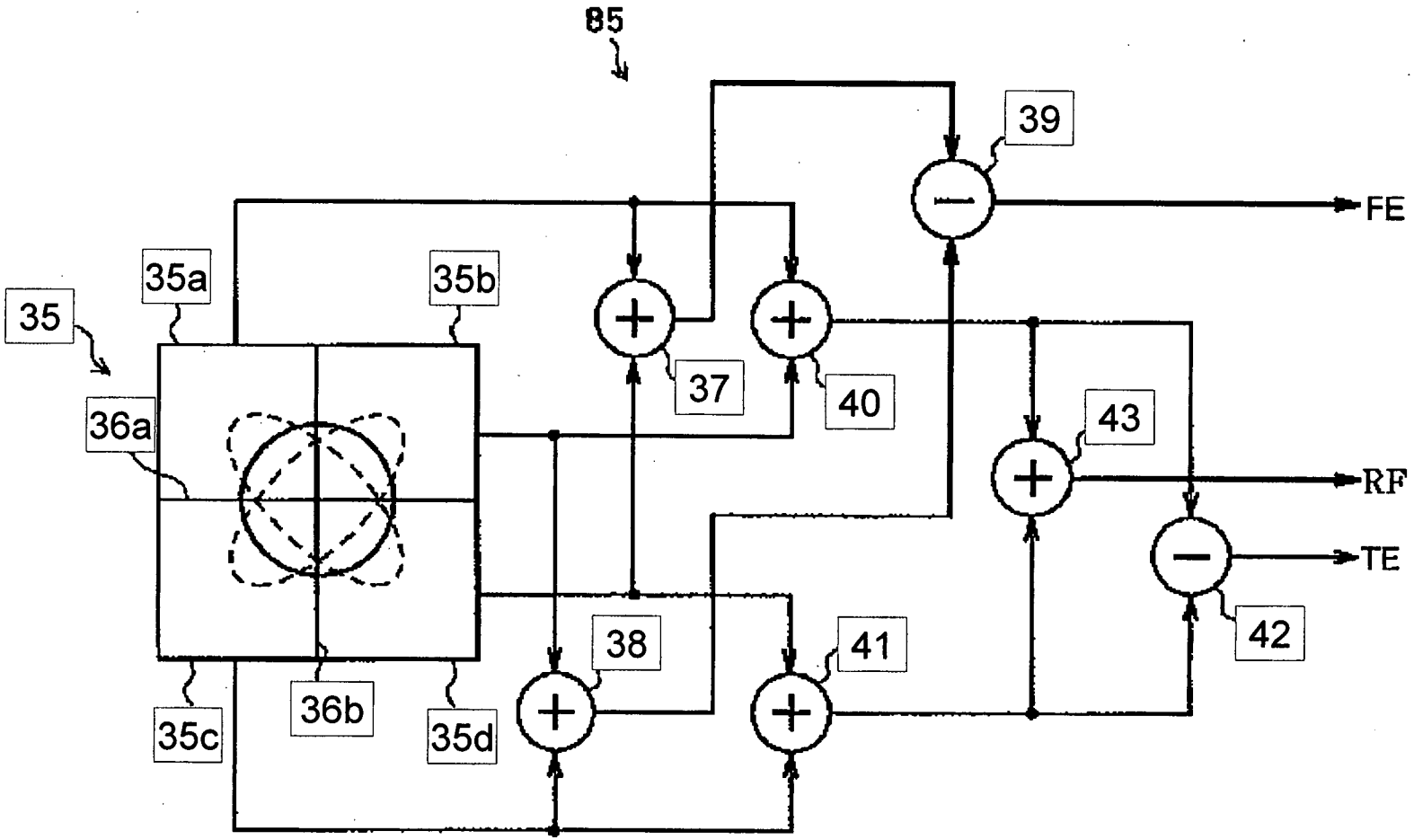


FIGURE 5

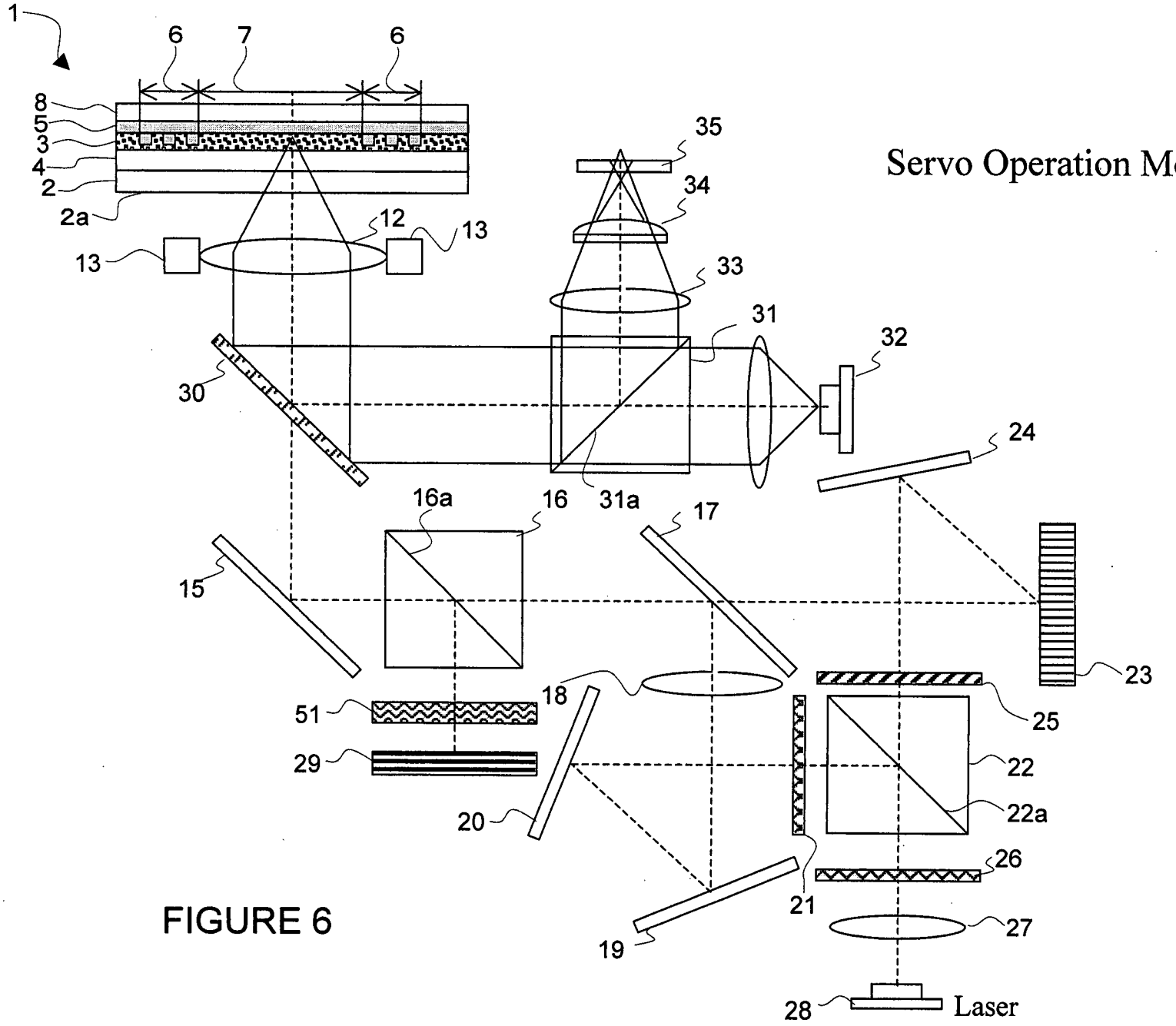

Servo Operation Mode
1
6
7
6
8
5
3
4
2
2a
12
13
13
35
34
33
31
32
30
24
16a
16
31a
17
15
23
18
51
25
29
22
22a
20
26
21
27
19
28
Laser

FIGURE 6

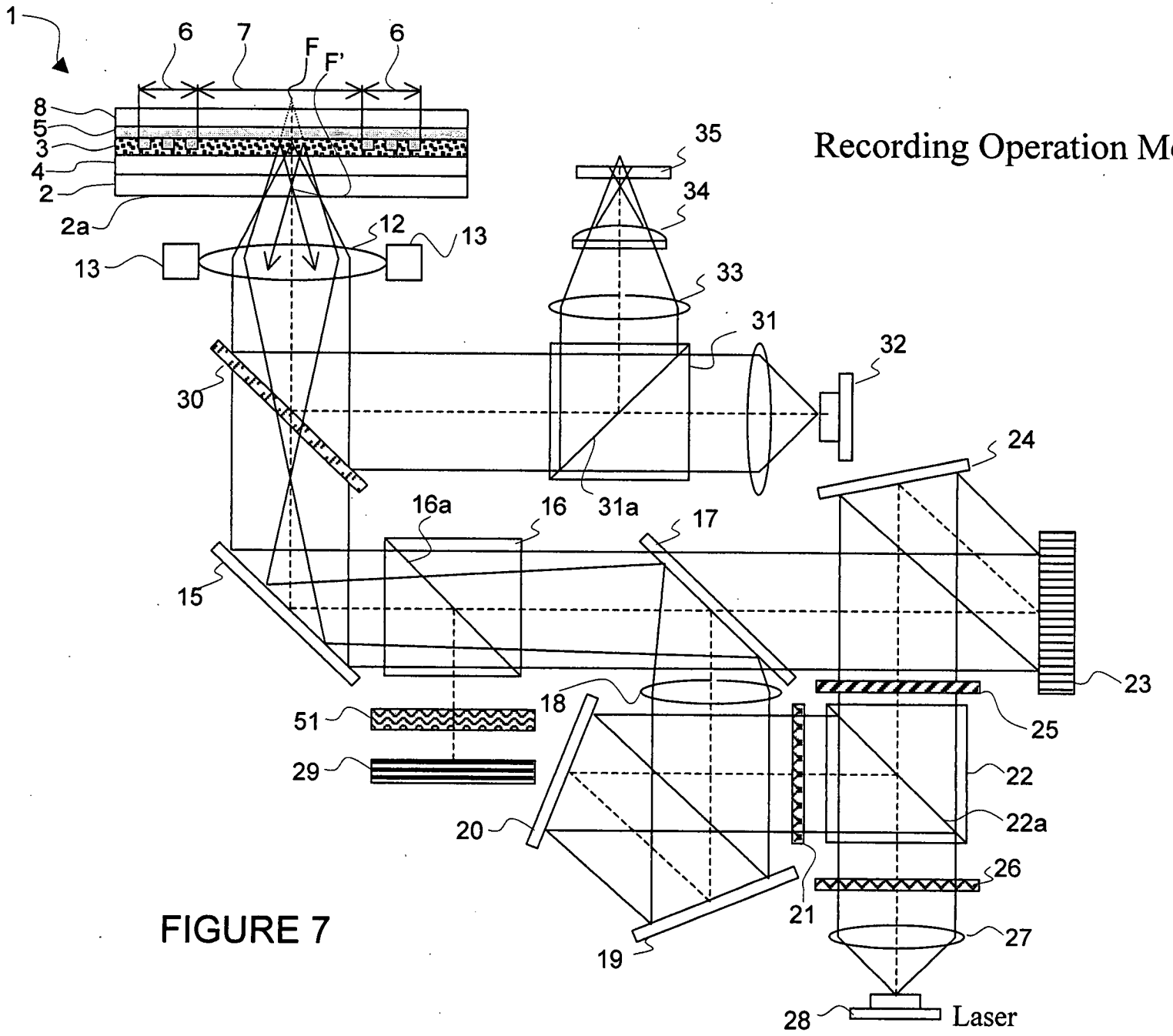
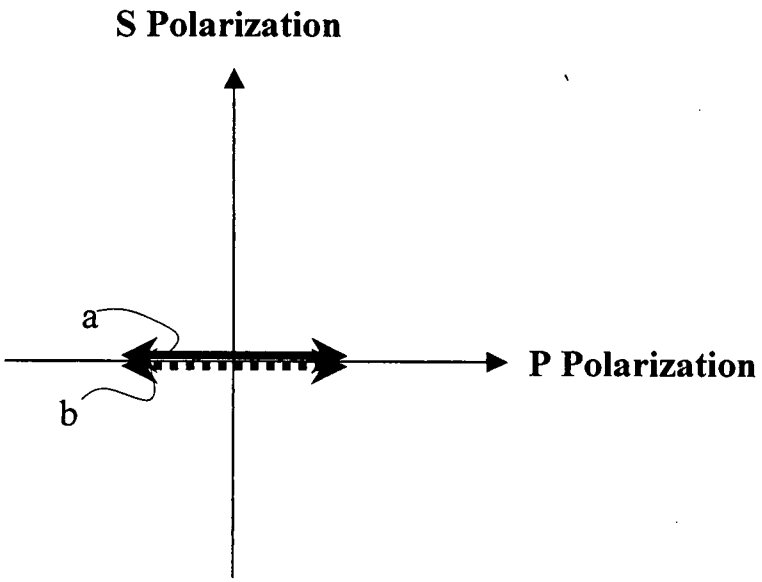
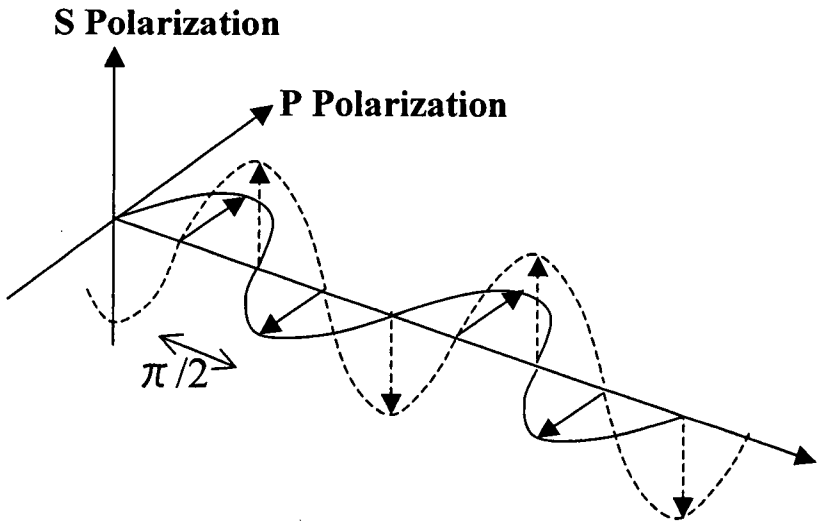

Recording Operation Mode
1
6
7
F
F'
6
8
5
3
4
2
2a
12
13
13
35
34
33
31
32
30
31a
16a
16
17
24
15
23
18
51
25
29
22
20
22a
26
21
27
19
28
Laser

FIGURE 7



(a) before entering 1/4 λ plate



(b) after entering 1/4 λ plate (during recording)

FIGURE 8

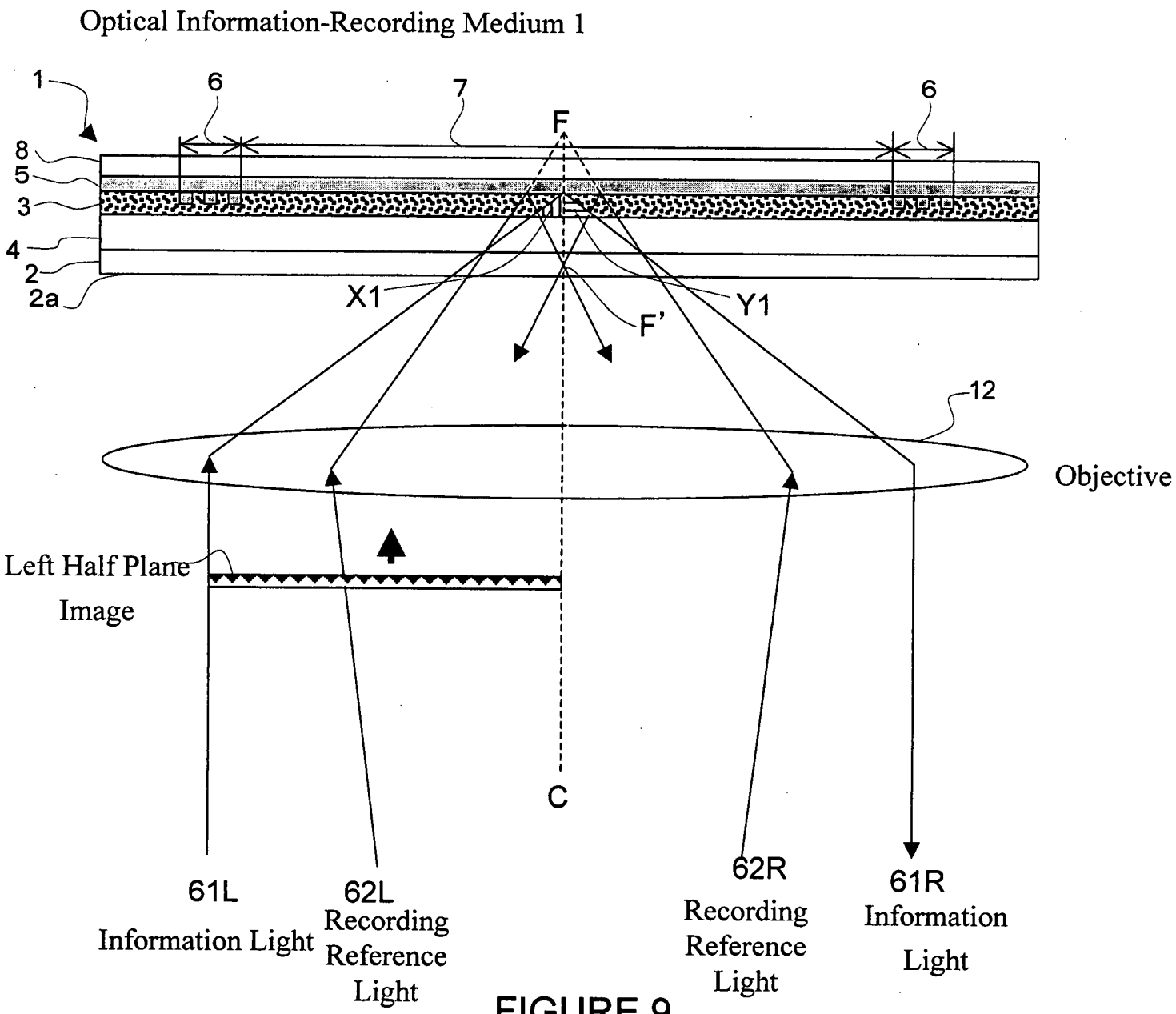

Optical Information-Recording Medium 1
1
6
7
6
F
8
5
3
4
2
2a
X1
Y1
F'
12
Objective
Left Half Plane
Image
C
61L
Information Light
62L
Recording
Reference
Light
62R
Recording
Reference
Light
61R
Information
Light

FIGURE 9

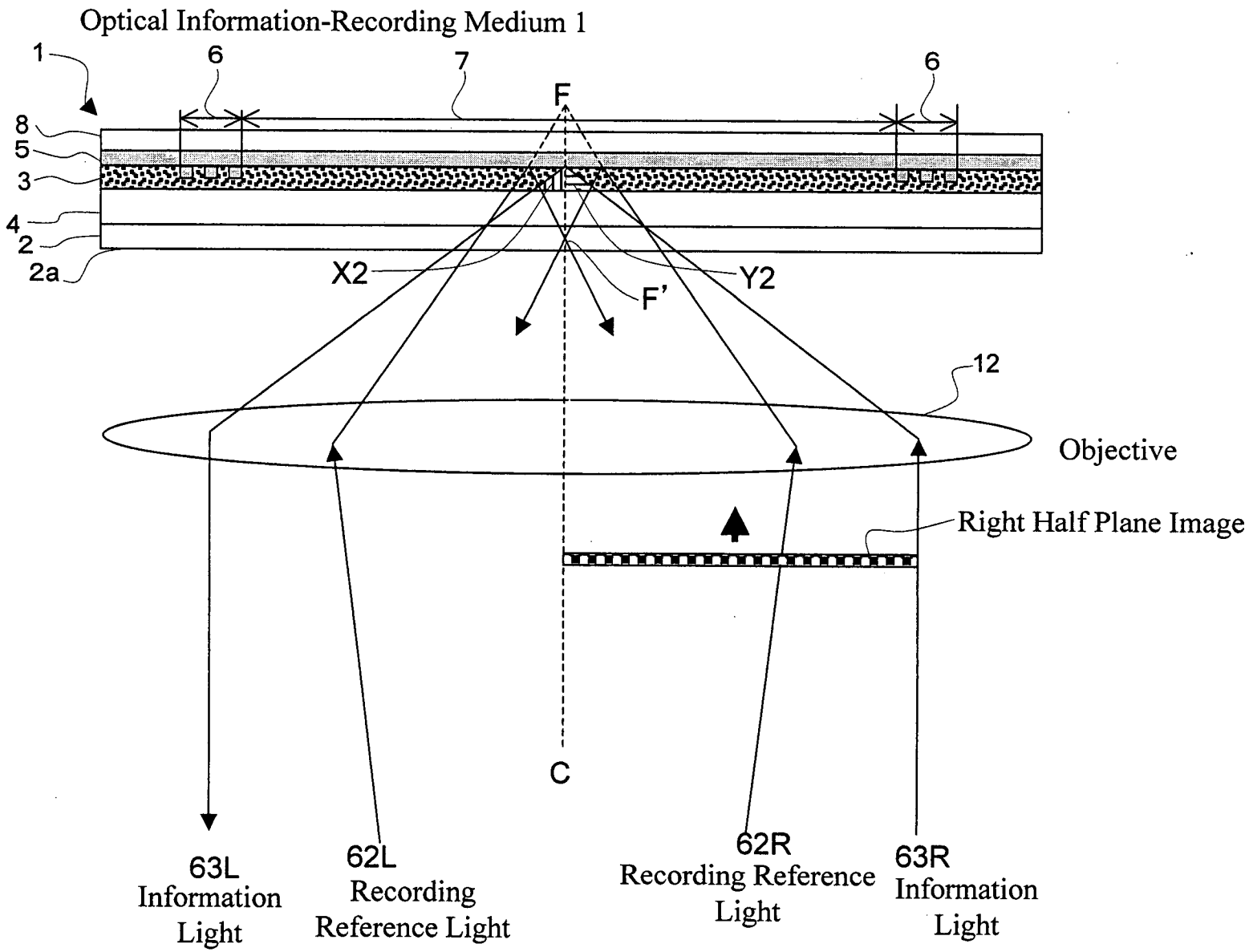

Optical Information-Recording Medium 1
1
6
7
6
F
8
5
3
4
2
2a
X2
Y2
F'
12
Objective
Right Half Plane Image
C
63L
Information
Light
62L
Recording
Reference Light
62R
Recording Reference
Light
63R
Information
Light

FIGURE 10

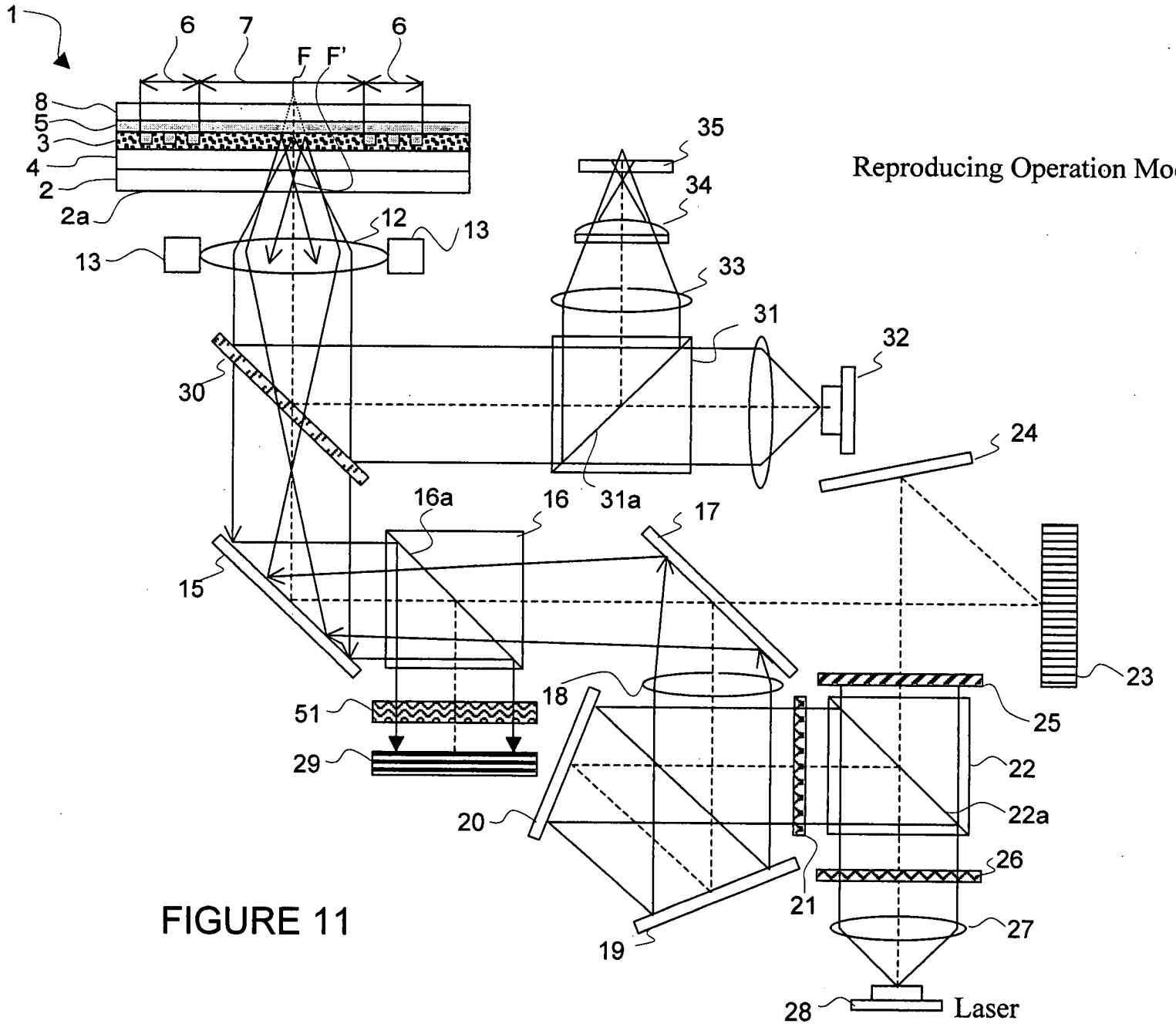
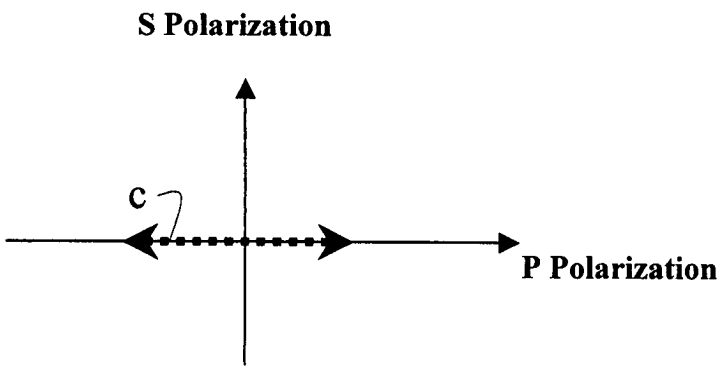
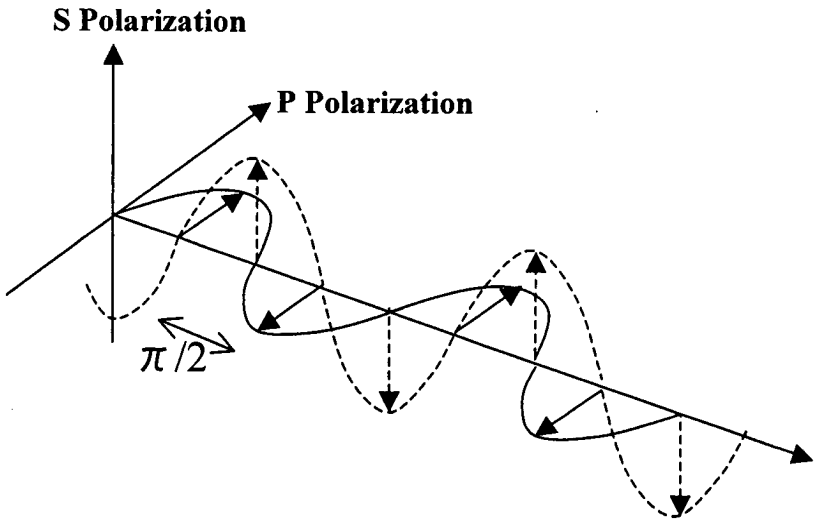

Reproducing Operation Mode
1
6
7
6
F
F'
8
5
3
4
2
2a
12
13
13
35
34
33
31
32
30
31a
24
16a
16
17
15
23
51
18
25
29
22
22a
20
26
21
27
19
28
Laser

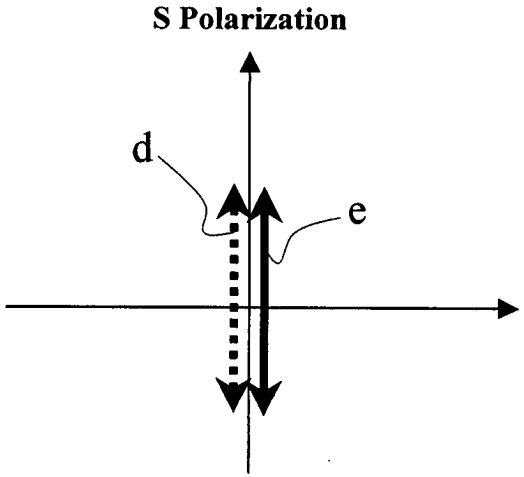
FIGURE 11



(a) Before Reproducing Reference Light Enters 1/4 λ Plate



(b) Reproducing Operation Mode



(c) After Returned Reference Light and Reproducing Light Leave the 1/4 λ Plate

FIGURE 12

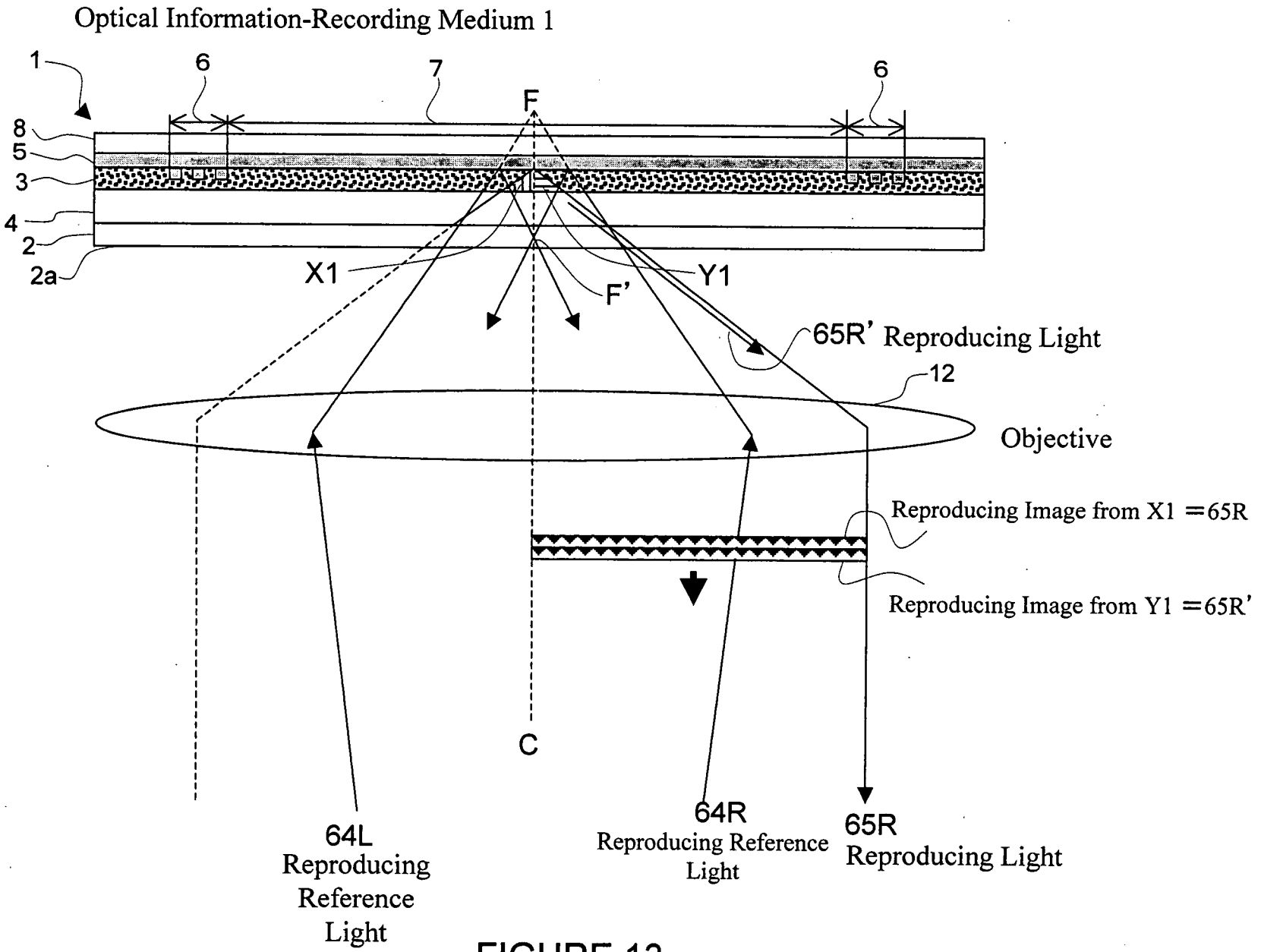

Optical Information-Recording Medium 1
1
6
7
6
F
8
5
3
4
2
2a
X1
F'
Y1
65R' Reproducing Light
12
Objective
Reproducing Image from X1 =65R
Reproducing Image from Y1 =65R'
C
64L
Reproducing
Reference
Light
64R
Reproducing Reference
Light
65R
Reproducing Light

FIGURE 13

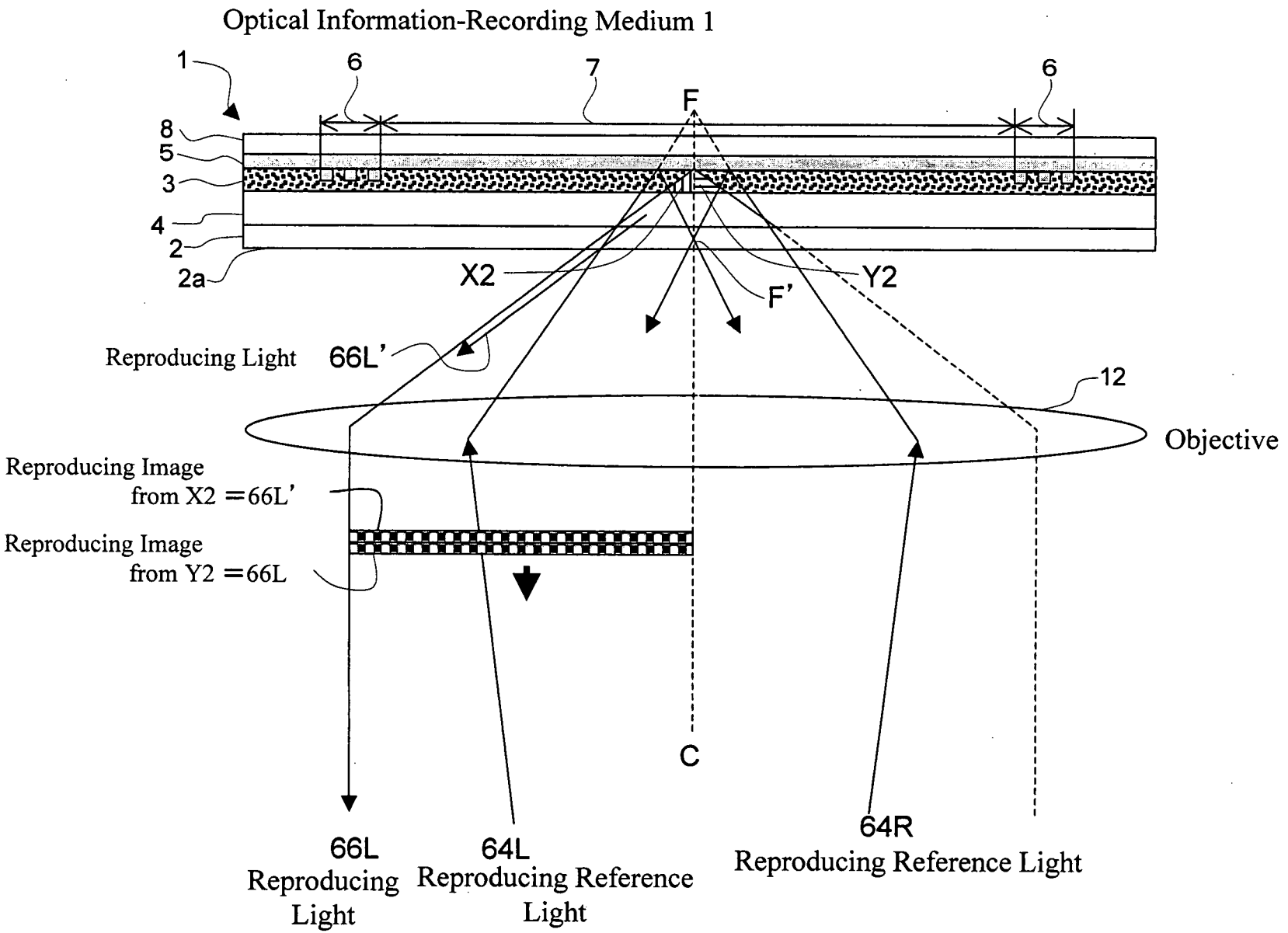
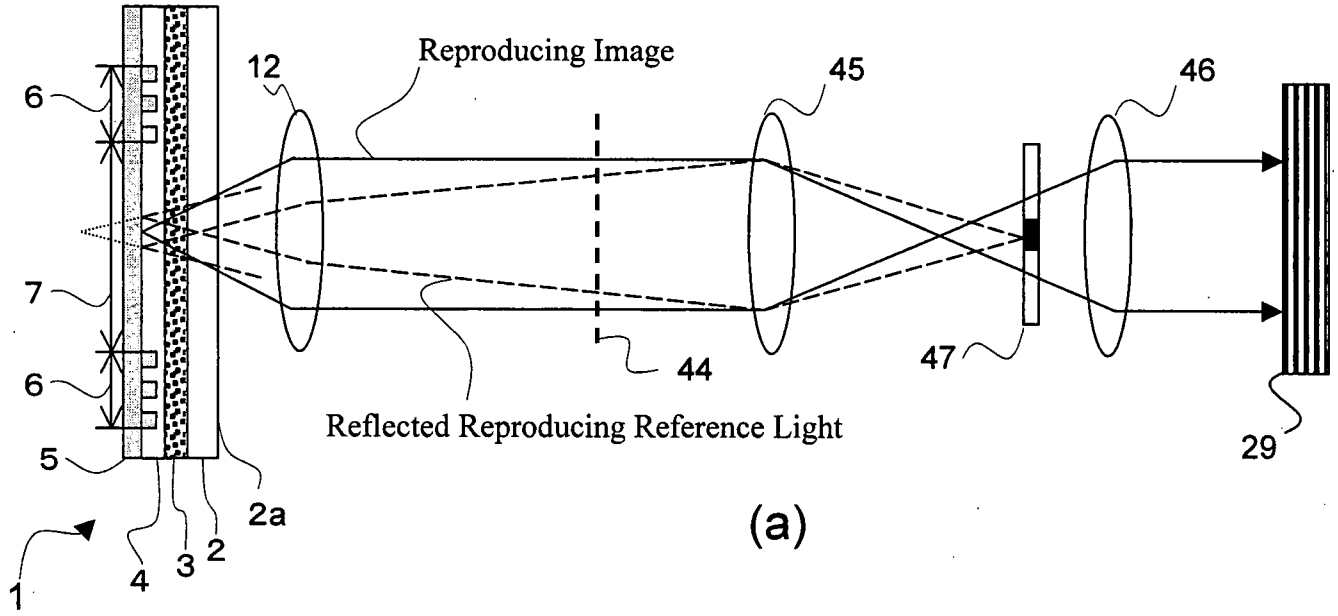
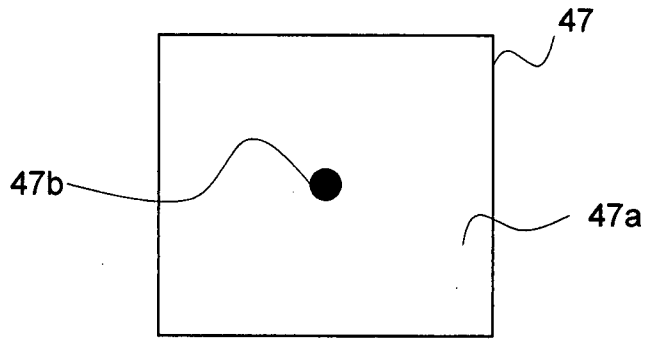

Optical Information-Recording Medium 1
1
6
7
6
F
8
5
3
4
2
2a
X2
Y2
F'
Reproducing Light
66L'
12
Objective
Reproducing Image
from X2 =66L'
Reproducing Image
from Y2 =66L
C
66L
Reproducing
Light
64L
Reproducing Reference
Light
64R
Reproducing Reference Light

FIGURE 14


Reproducing Image
12
45
46
6
7
6
5
44
47
29
Reflected Reproducing Reference Light
2a
4
3
2
1

(a)


47
47b
47a

(b)

FIGURE 15

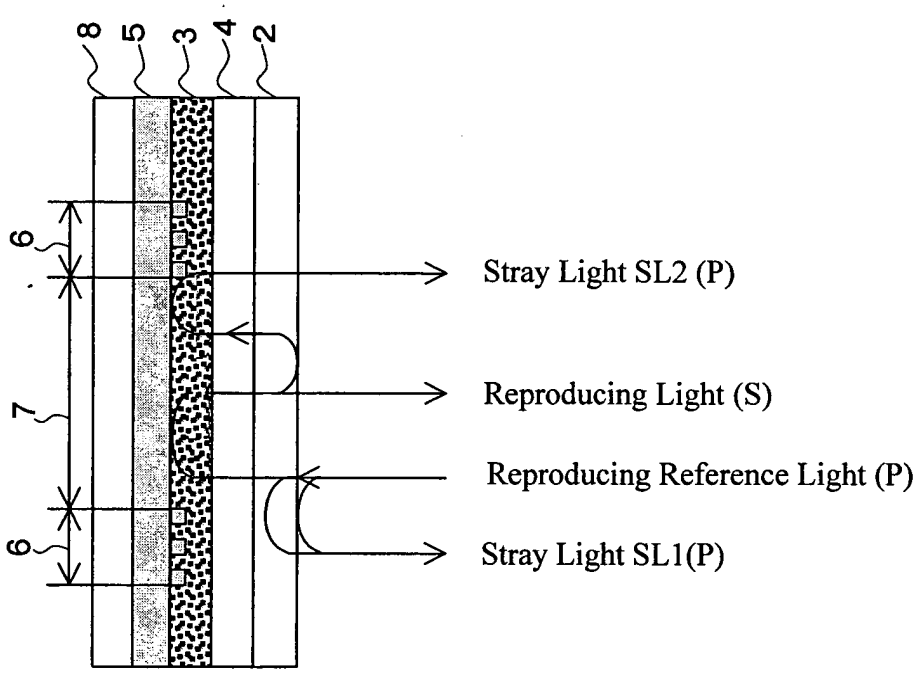

8
5
3
4
2
6
7
6
Stray Light SL2 (P)
Reproducing Light (S)
Reproducing Reference Light (P)
Stray Light SL1(P)

FIGURE 16

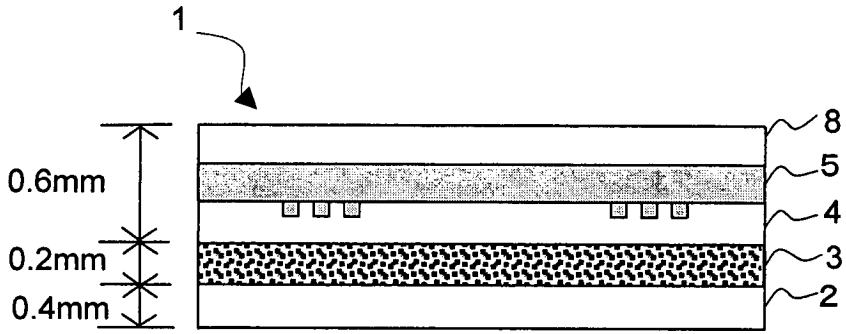


FIGURE 17

Optical Information-Recording Medium 1

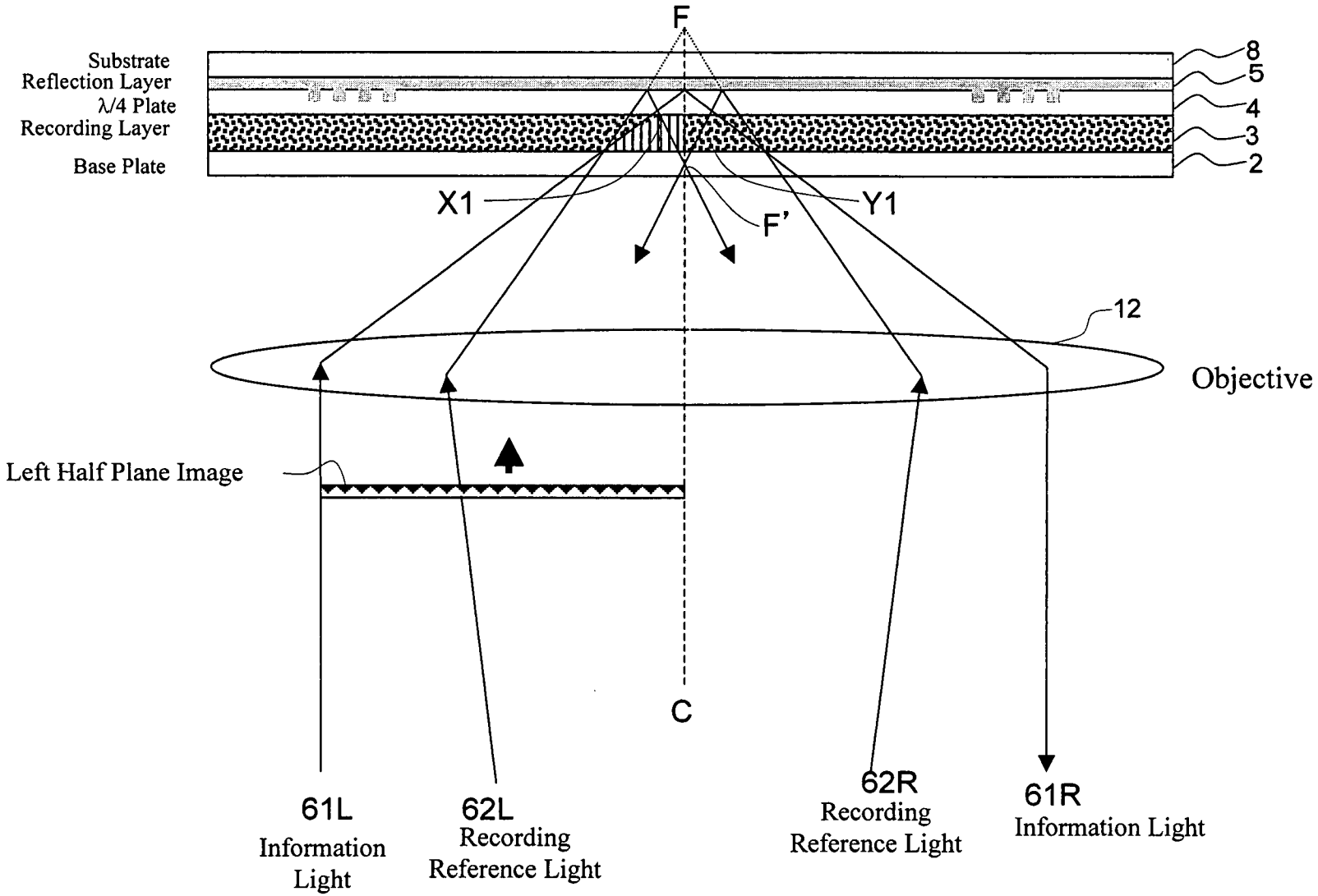


FIGURE 18

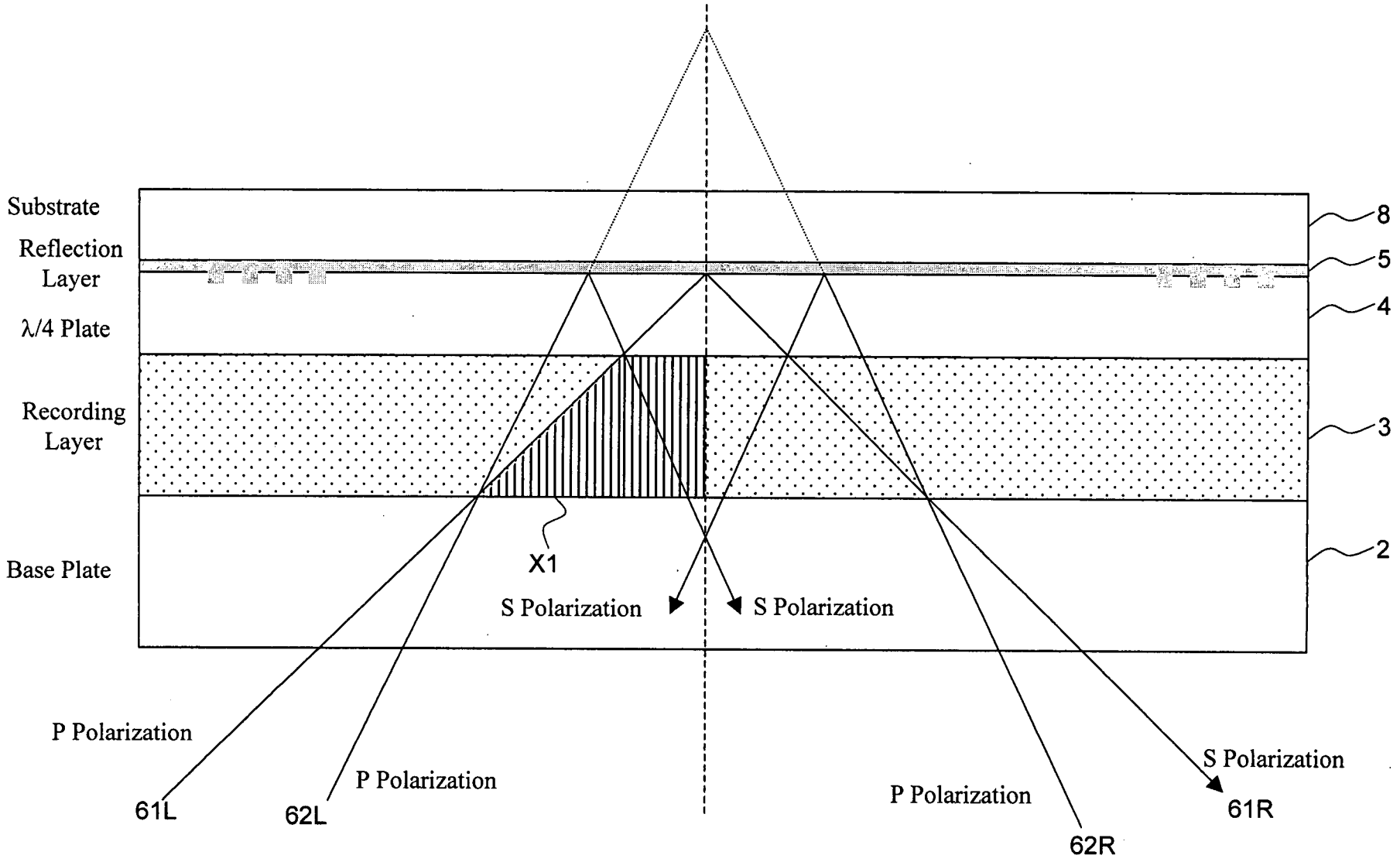

Substrate
Reflection Layer
λ/4 Plate
Recording Layer
Base Plate
8
5
4
3
2
X1
S Polarization
S Polarization
P Polarization
61L
P Polarization
62L
P Polarization
62R
S Polarization
61R

FIGURE 19

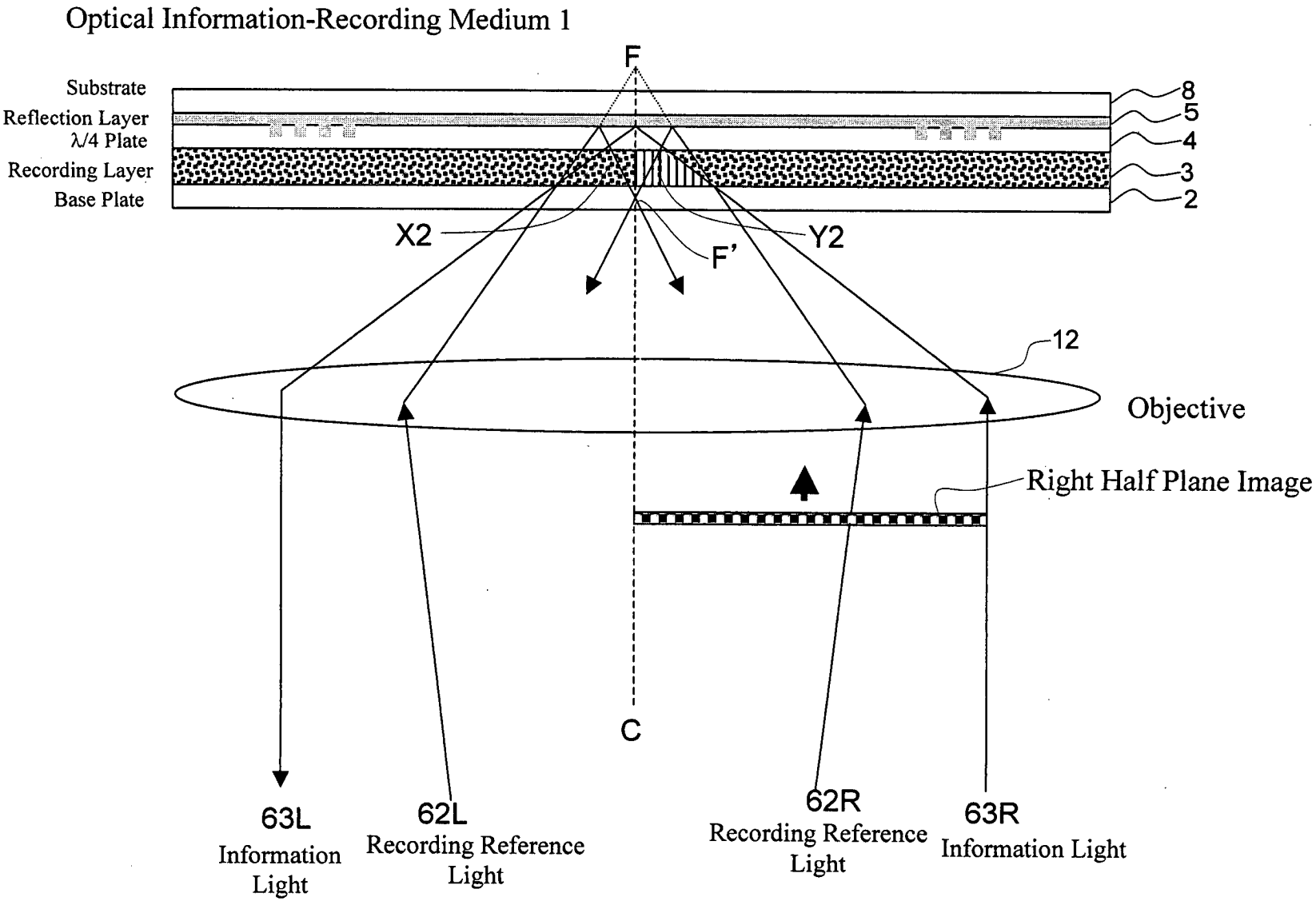

Optical Information-Recording Medium 1
Substrate
Reflection Layer
λ/4 Plate
Recording Layer
Base Plate
8
5
4
3
2
F
X2
Y2
F'
12
Objective
Right Half Plane Image
C
63L
Information Light
62L
Recording Reference Light
62R
Recording Reference Light
63R
Information Light

FIGURE 20

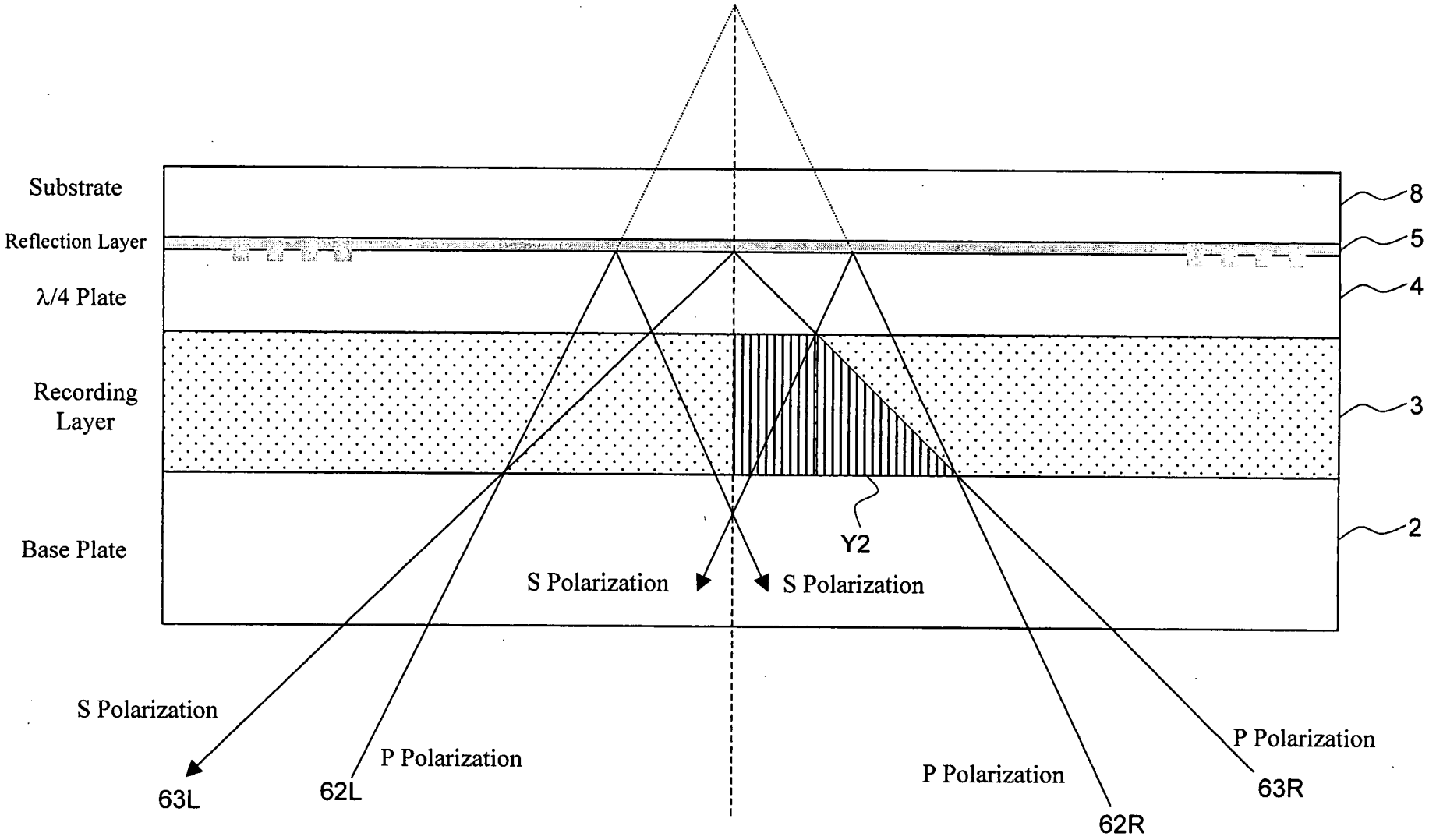

Substrate
Reflection Layer
λ/4 Plate
Recording Layer
Base Plate
8
5
4
3
2
Y2
S Polarization
S Polarization
S Polarization
P Polarization
P Polarization
P Polarization
63L
62L
62R
63R

FIGURE 21

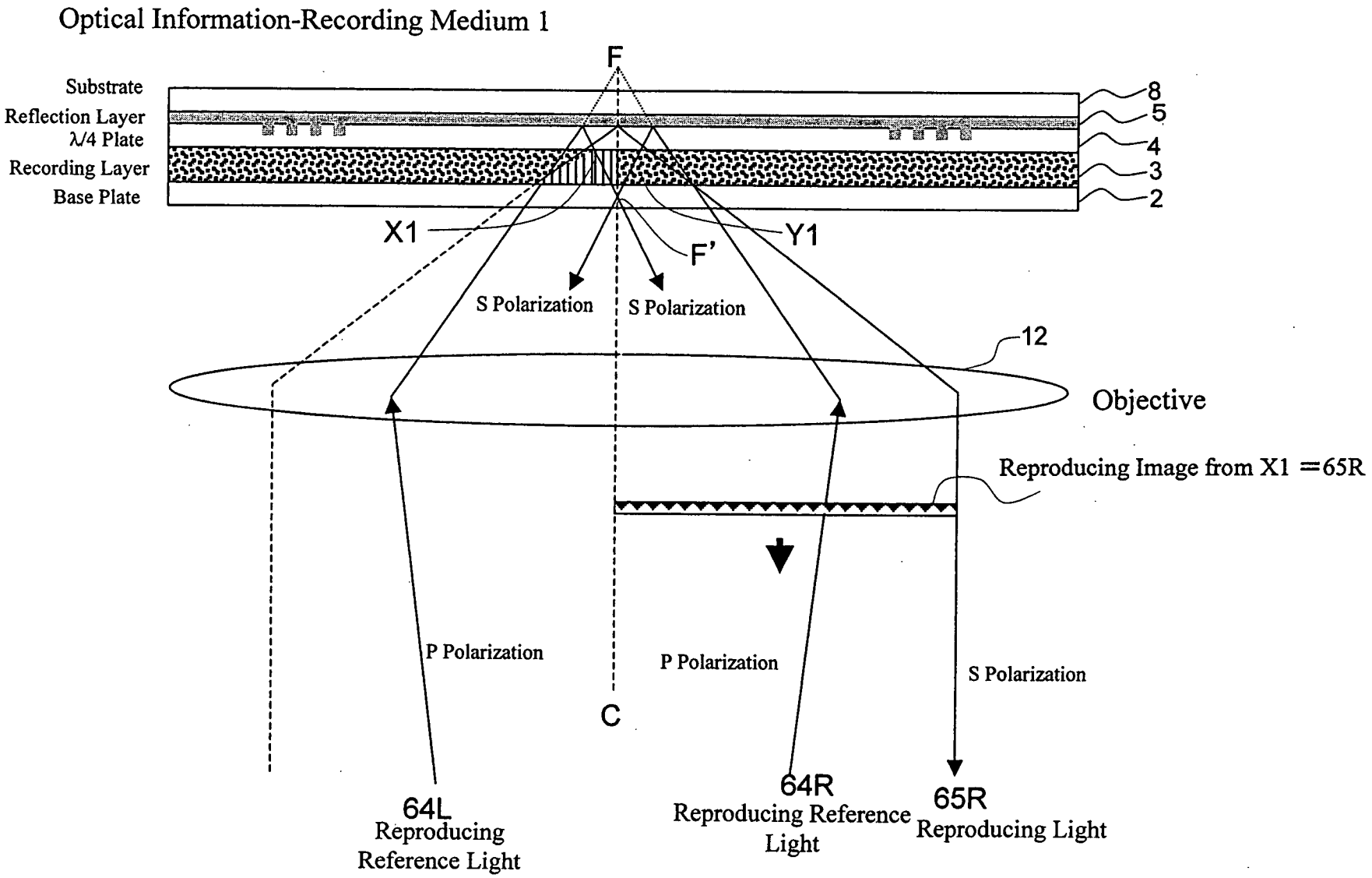

Optical Information-Recording Medium 1
Substrate
Reflection Layer
λ/4 Plate
Recording Layer
Base Plate
F
8
5
4
3
2
X1
Y1
F'
S Polarization
S Polarization
12
Objective
Reproducing Image from X1 =65R
P Polarization
P Polarization
S Polarization
C
64L
Reproducing
Reference Light
64R
Reproducing Reference
Light
65R
Reproducing Light

FIGURE 22

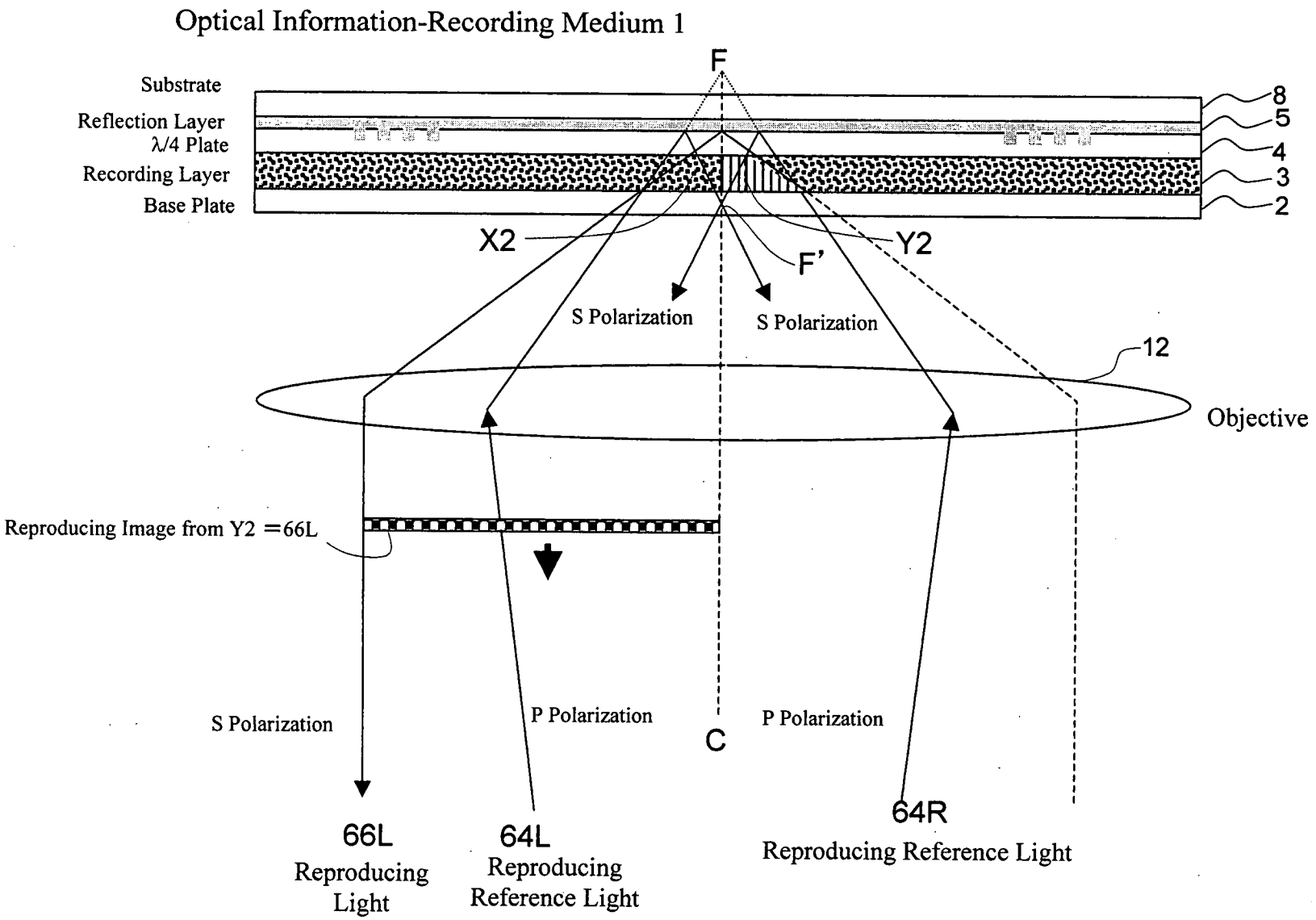

Optical Information-Recording Medium 1
Substrate
Reflection Layer
λ/4 Plate
Recording Layer
Base Plate
F
8
5
4
3
2
X2
Y2
F'
S Polarization
S Polarization
12
Objective
Reproducing Image from Y2 =66L
S Polarization
P Polarization
C
P Polarization
66L
Reproducing Light
64L
Reproducing Reference Light
64R
Reproducing Reference Light

FIGURE 23

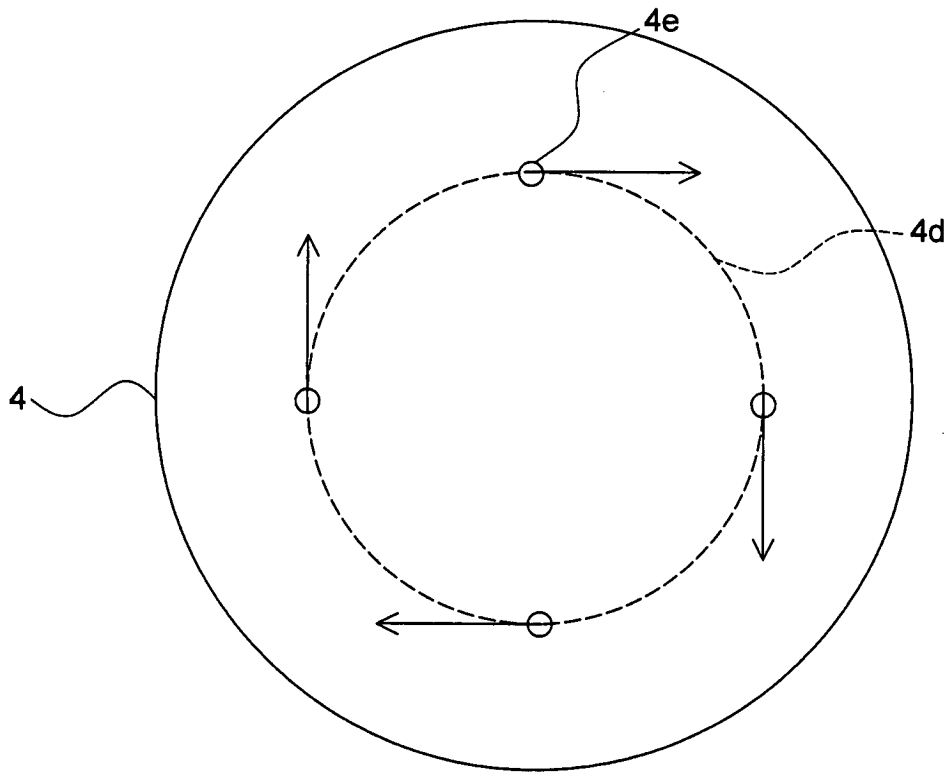


FIGURE 24

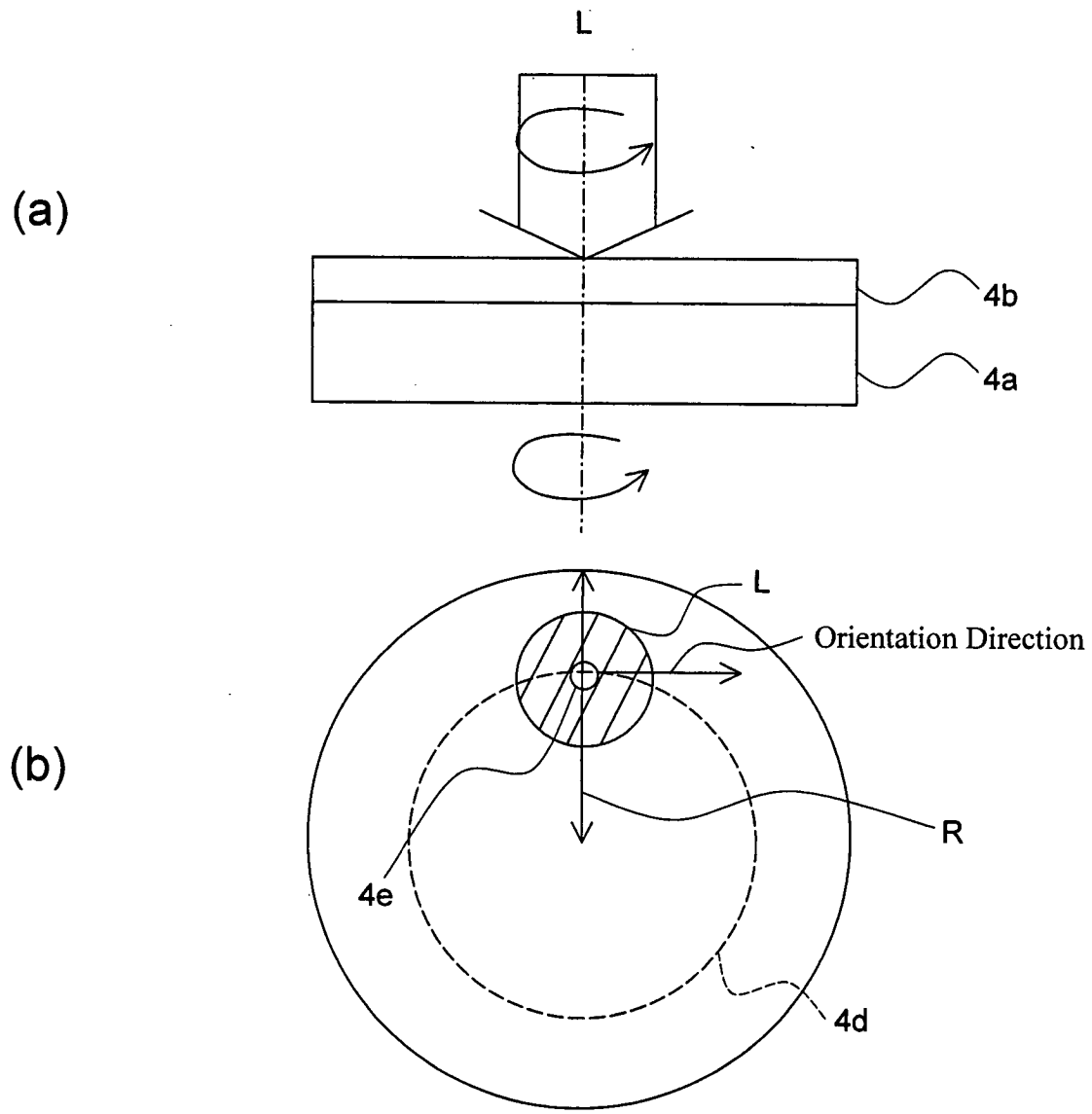


FIGURE 25

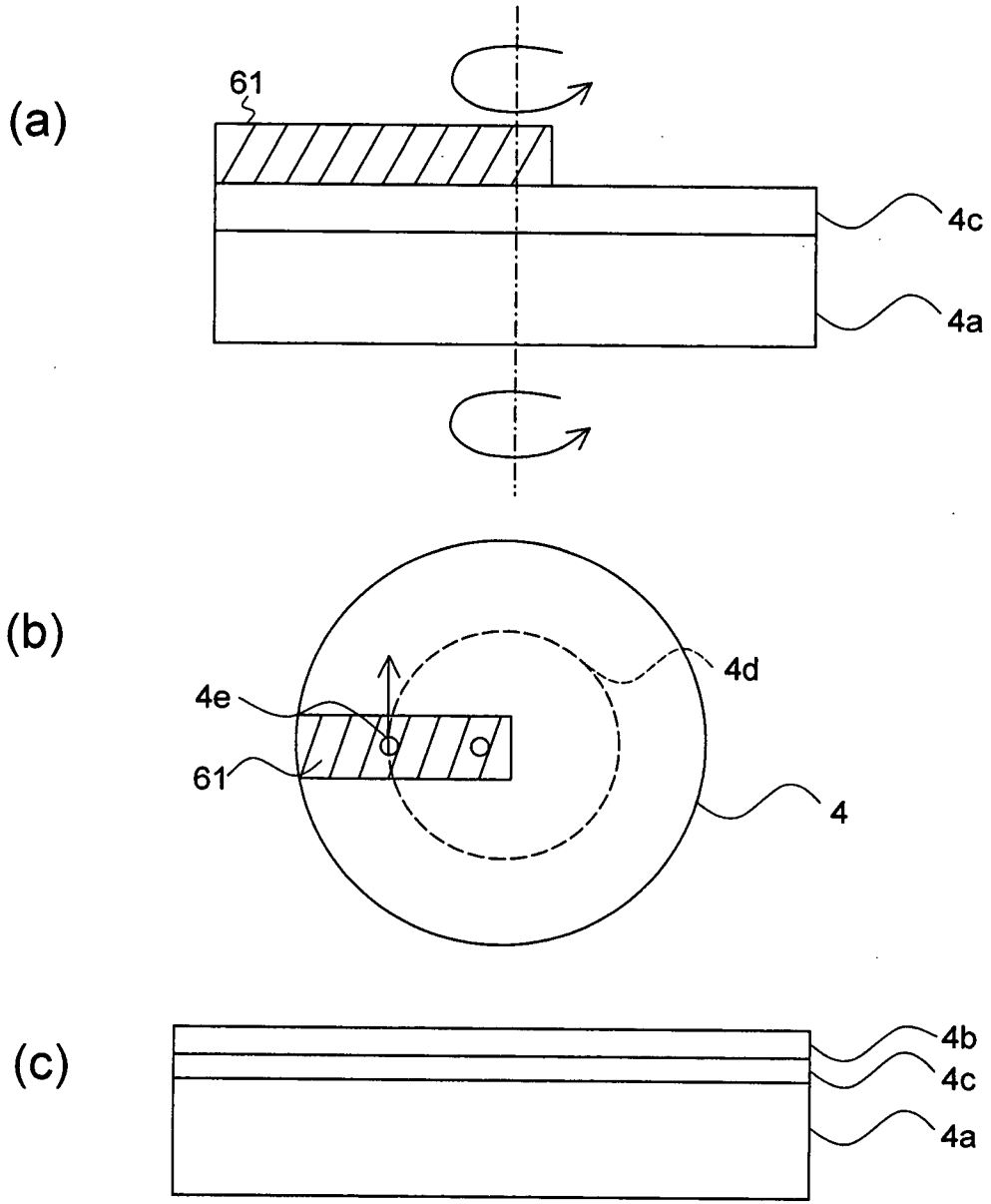


FIGURE 26